

ILLEGIB

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280089-5

Next 2 Page(s) In Document Exempt

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280089-5

Copy 5  
33 Pages

~~TOP SECRET~~  
NO FOREIGN DISSEM

12337  
NPIC/R-170/64  
March 1964

PHOTOGRAPHIC INTERPRETATION REPORT

TEST FACILITY  
TAO-AN, CHINA

DECLASSIFICATION REVIEW by NIMA/DOD 3/22/00



CIA



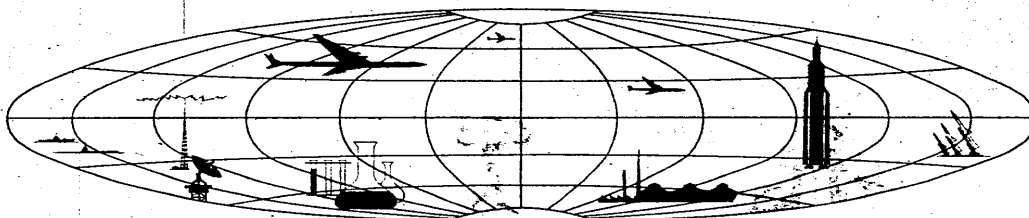
DIA

Handle Via **TALENT - KEYHOLE** Control Only

WARNING

This document contains classified information affecting the national security of the United States within the meaning of the espionage laws U. S. Code Title 18, Sections 793 and 794. The law prohibits its transmission or the revelation of its contents in any manner to an unauthorized person, as well as its use in any manner prejudicial to the safety or interest of the United States or for the benefit of any foreign government to the detriment of the United States. It is to be seen only by personnel especially indoctrinated and authorized to receive TALENT-KEYHOLE information. Its security must be maintained in accordance with KEYHOLE and TALENT regulations.

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



~~TOP SECRET~~  
NO FOREIGN DISSEM

GROUP 1  
Excluded from automatic  
downgrading and declassification

**TOP SECRET CHESS RUFF**

NO FOREIGN DISSEM

PHOTOGRAPHIC INTERPRETATION REPORT

**TEST FACILITY  
TAO-AN, CHINA**

NPIC/R-170/64

March 1964

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

**TOP SECRET CHESS RUFF**

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

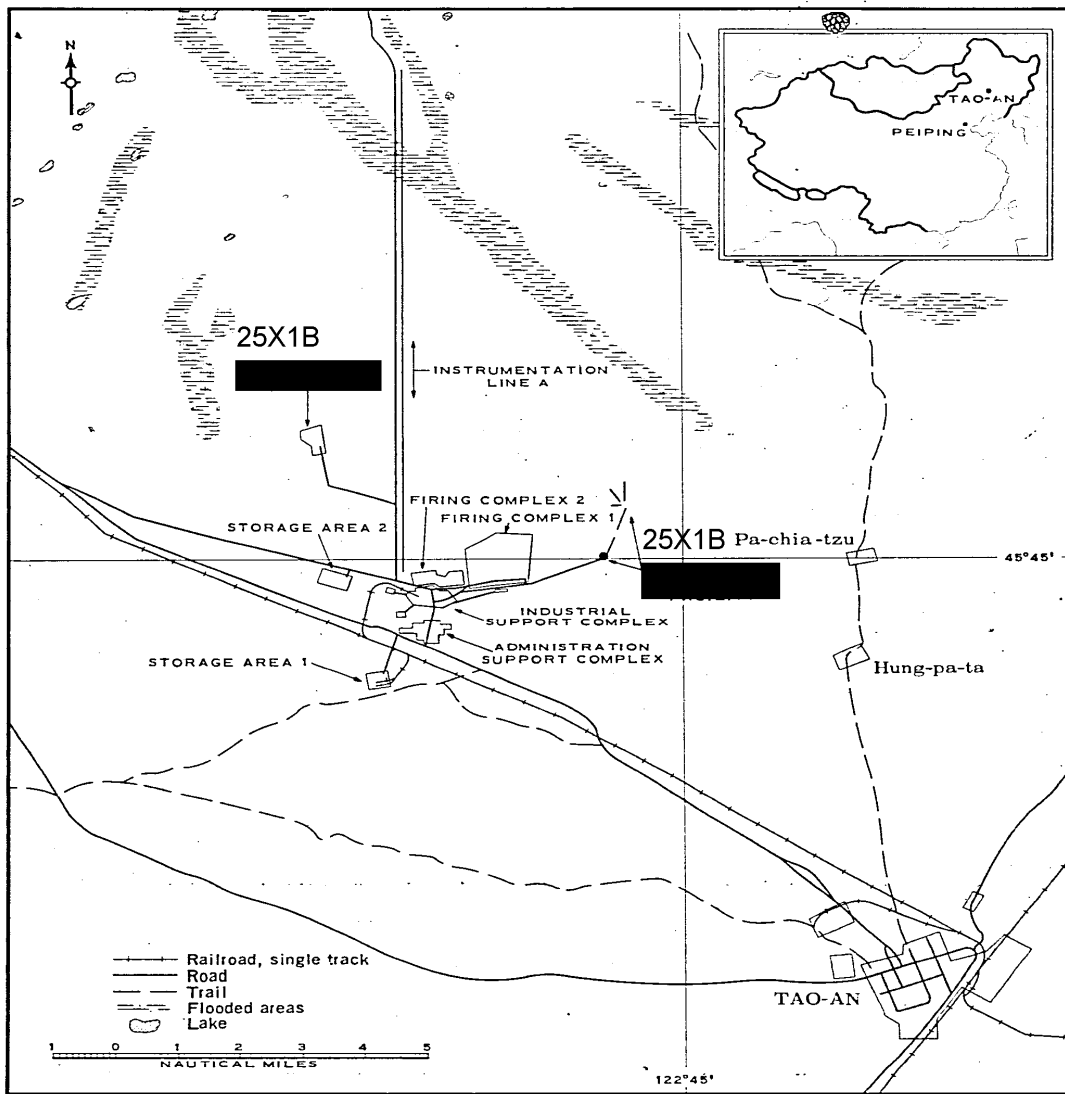


FIGURE 1. LOCATION MAP.

NPIC H-7858 (3/64)

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

## INTRODUCTION

25X1B

25X1D

Photography of [REDACTED] reveals a test facility located in northeast China at 45-44N 122-39E. This facility is situated 11 nautical miles (nm) northwest of Tao-an, along the Tao-an--Wang-yeh-miao rail line. It is road and rail served. The nearest major airfield is located at Chi-chi-ha-erh, approximately 150 nm to the north-northeast.

25X1B

25X1B

25X1B

The facility consists of 2 firing complexes, 2 support complexes, 2 storage areas, range instrumentation, 4 impact areas, a [REDACTED]

[REDACTED]. Two small blast furnaces are located along the rail line on the southwest edge of the support areas. They are not active and do not appear to be associated with the test facility.

The Industrial Support Complex, the Administrative Support Complex, Storage Area 1, and the Instrumentation appear to be complete and usable. Firing Complex 1 appears complete and operable but there is no evidence of recent usage. Firing Complex 2 is still under construction but a few portions of the complex may be usable. Storage Area 2 is under construction; however, some of the storage buildings

[REDACTED]

The function of this installation is research and development of weapons, ranging in size from small arms to small free rockets. The primary emphasis at this time is probably on research. The variety of ranges and the variety of firing positions indicate that many different types and caliber of weapons can be tested simultaneously.

The facility was first observed on KEY-HOLE photography in [REDACTED] and at that time was identified as Tao-an Area, Ground Pattern 1/. The purpose was not specified. The only apparent changes since that time are in Storage Area 2 where construction continues on an unidentified area and three support buildings; Firing Complex 2, Area C, where two passageways are being constructed through the earthen blast wall; Area F where the elliptical revetment and the buildings in it have been constructed; the

25X1D

25X1B

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM

NPIC/R-170/64



25X1D

FIGURE 2. FIRING COMPLEX 1, TAO-AN.

NPIC H-7859 (3/64)

- 2 -

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM

## FIRING COMPLEX 1

A direct-fire range complex (Figure 2) is situated east-northeast of the Industrial Support Complex and contains five ranges, A through E (Figures 3-7), which could be used for testing a variety of weapons ranging in size from small arms to tank guns.

Each range consists of target butts and target frames, firing positions, and observation bunkers. The firing position on Range C indicates that it is probably utilized to test recoilless rifles and small man-held rockets. The test

facilities in Item 2 on Figure 4, Item 3 on Figure 6, and Item 4 on Figures 5 and 7 are probably used for testing projectiles and small finned rockets for spin and trajectory.

The ranges are utilized to test deflection, velocity, and in-flight characteristics. The bunkers are utilized for visual, photographic, and possibly electronic observation. The targets are standard ordnance type, probably cloth or paper targets.

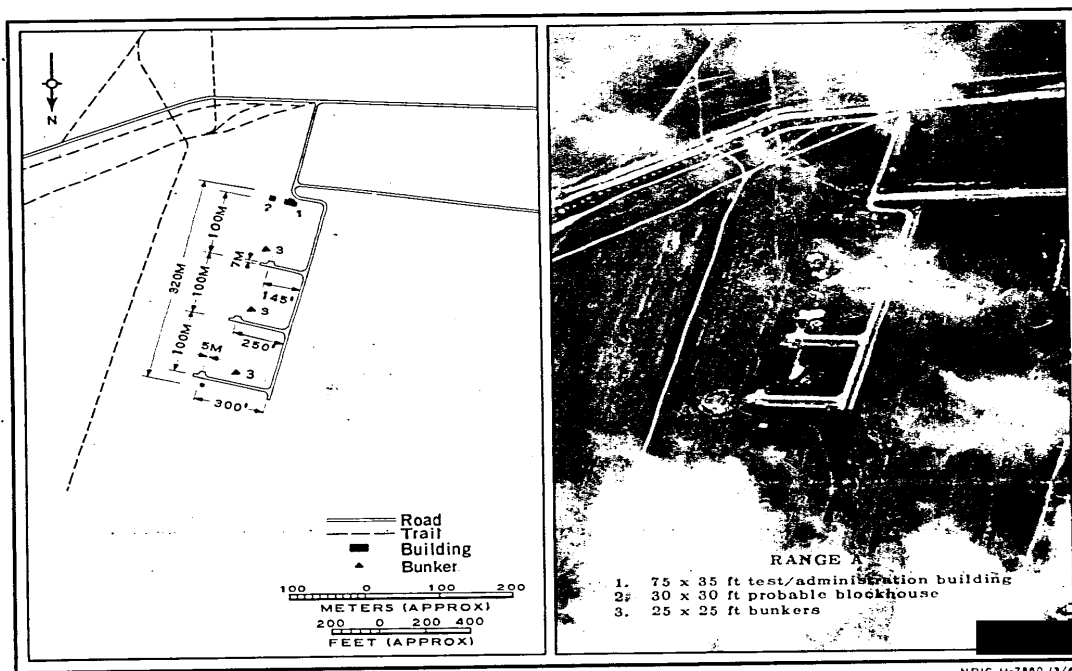


FIGURE 3. FIRING RANGE A, FIRING COMPLEX 1.

NPIC H-7880 (3/64)

25X1D

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

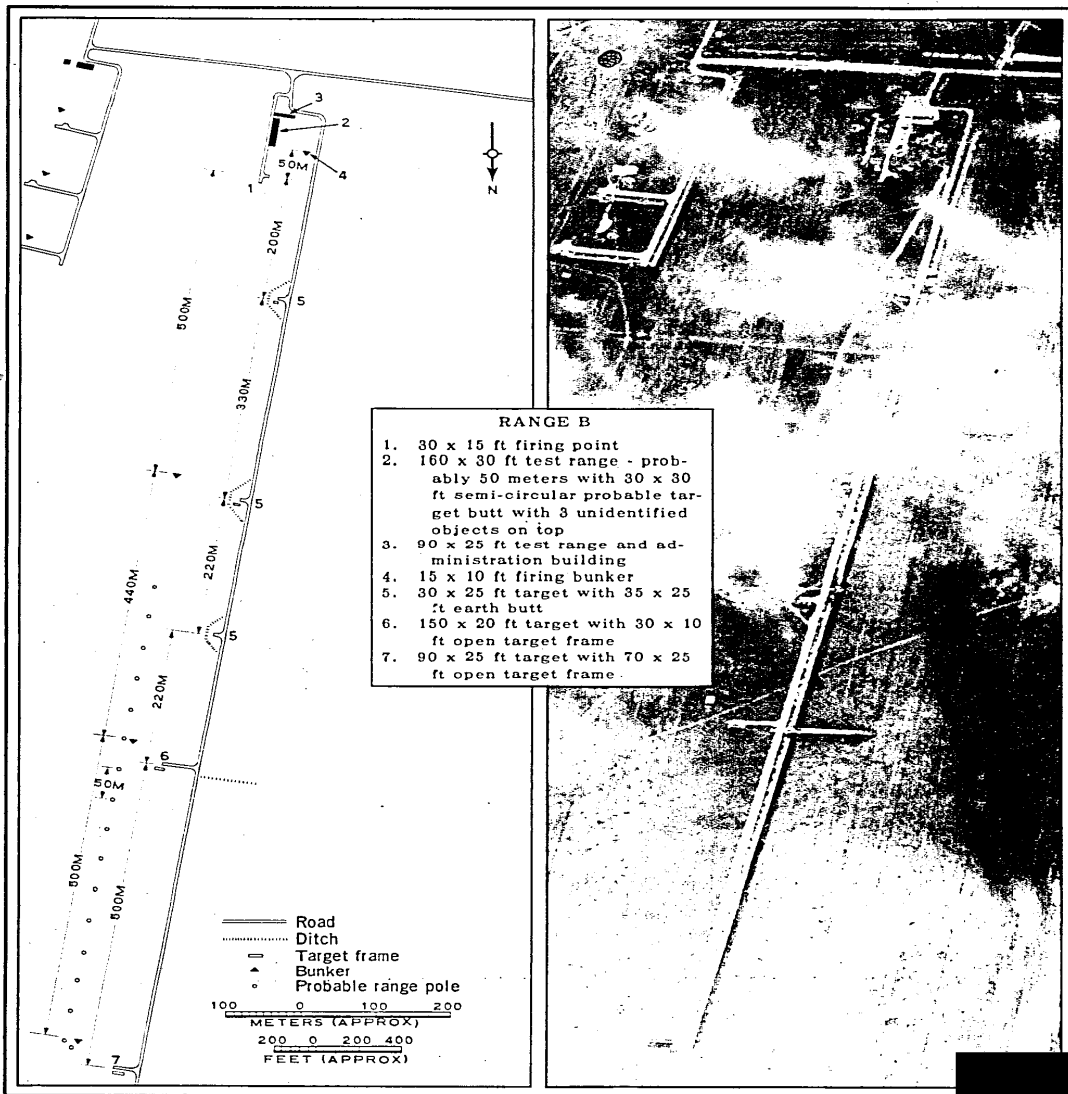


FIGURE 4. FIRING RANGE B, FIRING COMPLEX 1.

25X1D

- 4 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM





NPIC H-7862 (3/64)

25X1D

# TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

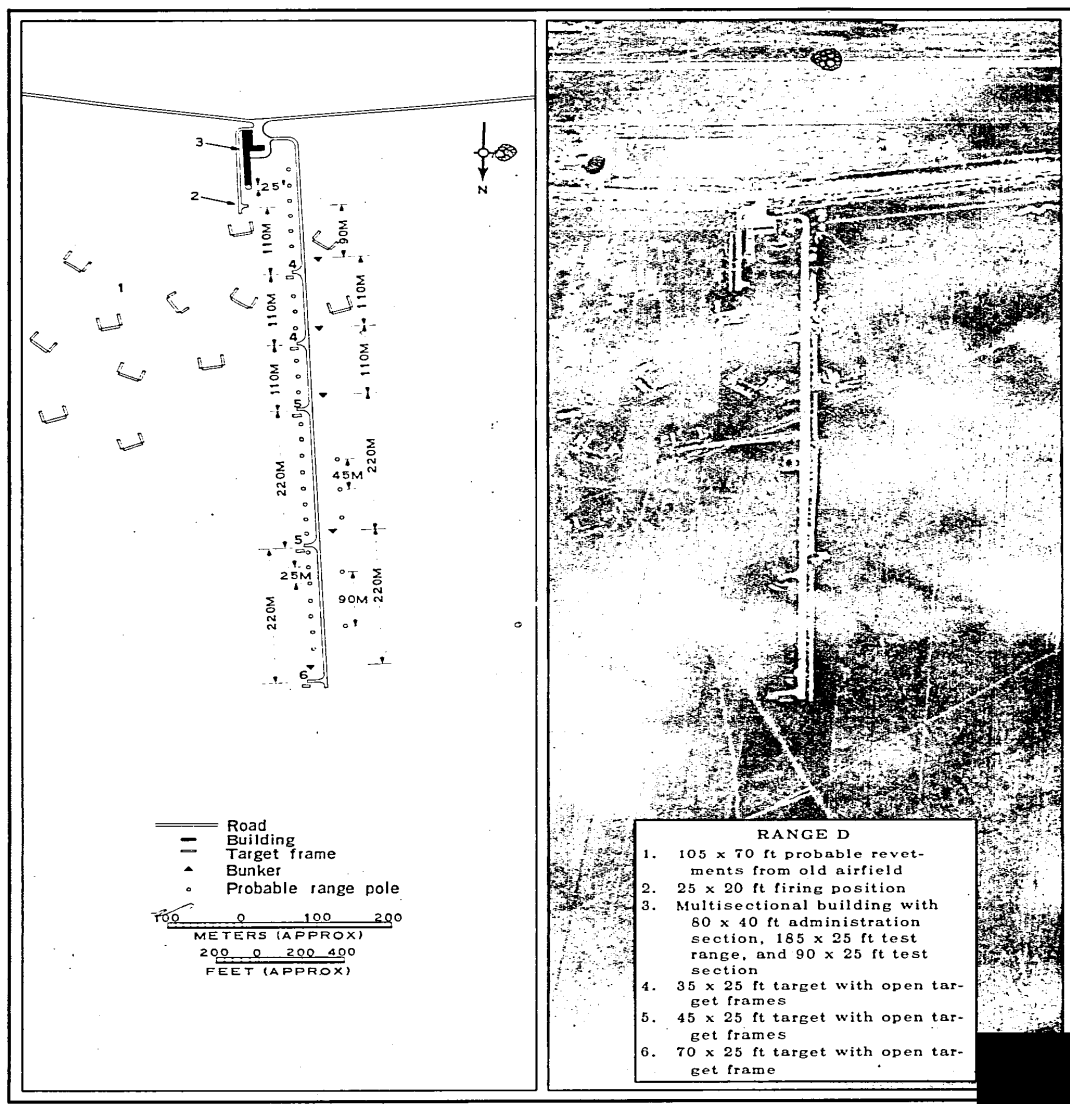


FIGURE 6. FIRING RANGE D, FIRING COMPLEX 1.

- 6 -

# TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

25X1D

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

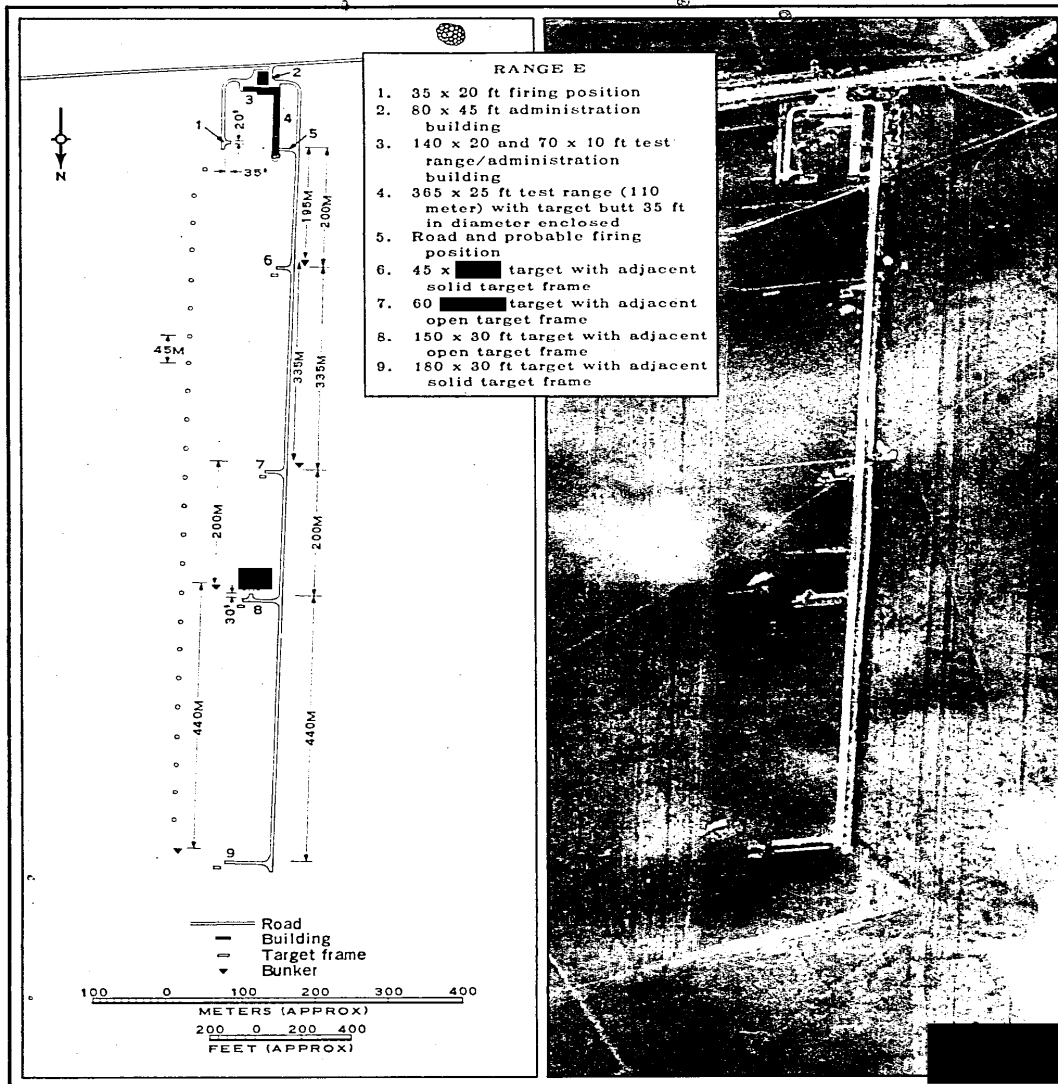


FIGURE 7. FIRING RANGE E, FIRING COMPLEX 1.

- 7 -

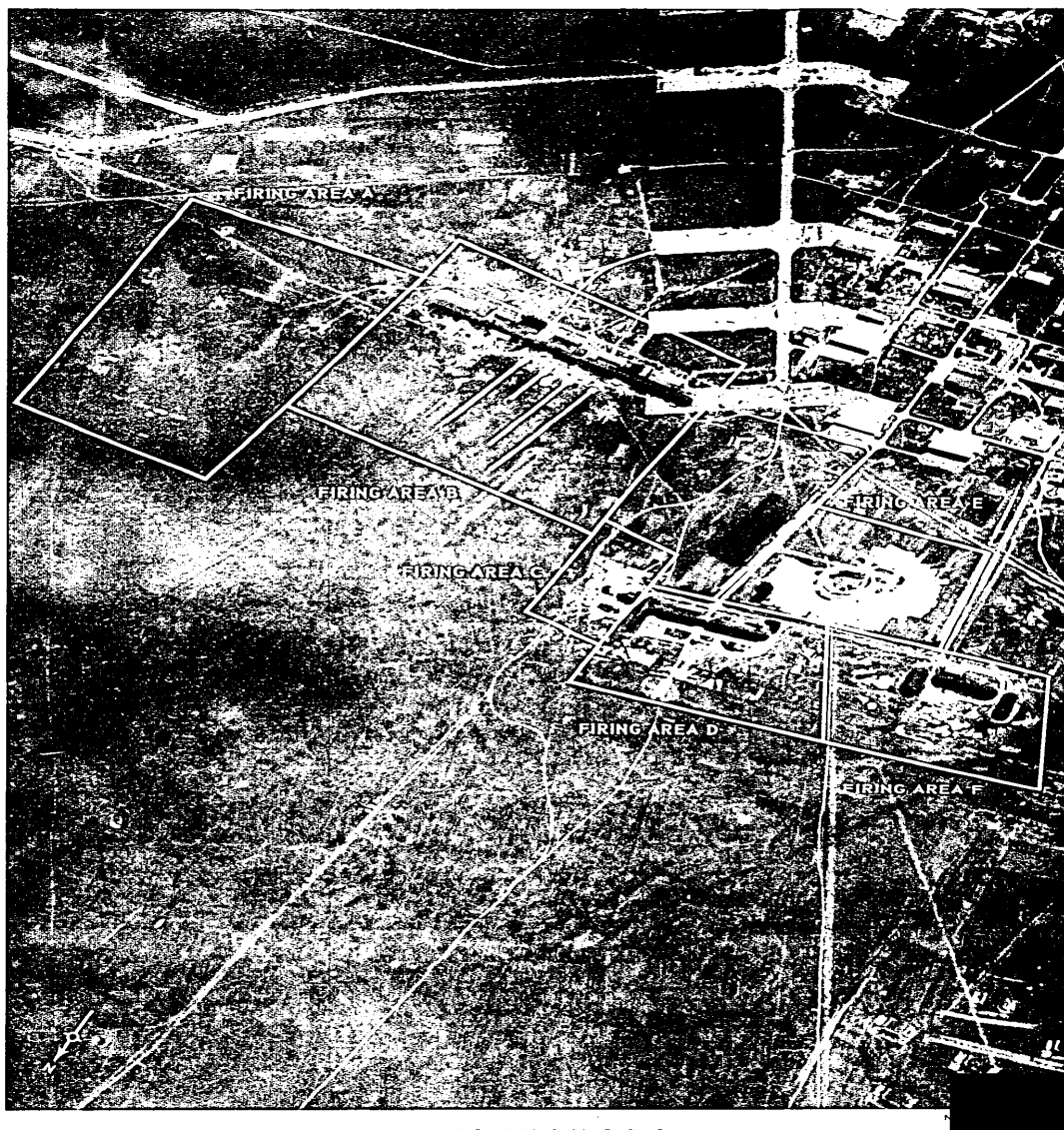
TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64



25X1D

FIGURE 8. FIRING COMPLEX 2.

- 8 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

## FIRING COMPLEX 2

This firing complex, located immediately north of the Industrial Support Complex, is divided into areas A through F (Figure 8). Areas B through F and part of Area A are still under construction and may not have been used very much as of [REDACTED] although portions are probably operable. Areas D and E are oriented due north and Areas A, B, and C, approximately 10 degrees east of north.

This complex is probably used for testing small free rockets, although Areas D and E may be used for artillery as well, and part of Area A may be used for direct-fire weapons.

## Firing Area A

This area (Figure 9) has two facilities; one, a probable direct-fire range and the second, a probable rocket test facility. The probable direct-fire range, probably still under construction, will possibly be utilized by a vehicular-

mounted weapon, such as a recoilless rifle. The range consists of a standard ordnance-type target with a nearby observation bunker, excavations for two other possible targets, and two small, probable control buildings. No firing point is discernible.

The probable rocket test facility is probably utilized for horizontal static test firing of small rockets. It consists of a rectangular probable test pad (Figure 10) with a raised center portion, small earthen blast walls on three sides, and a control building located 150 feet west of the pad. On the fourth side of the pad (down-range) is a jet-type scar on the sod. This older test facility probably will be replaced in the future by another, possibly the Unidentified Facility (Figure 20).

## Firing Area B

This area (Figures 11 and 12) consists of nine firing positions of three different types:

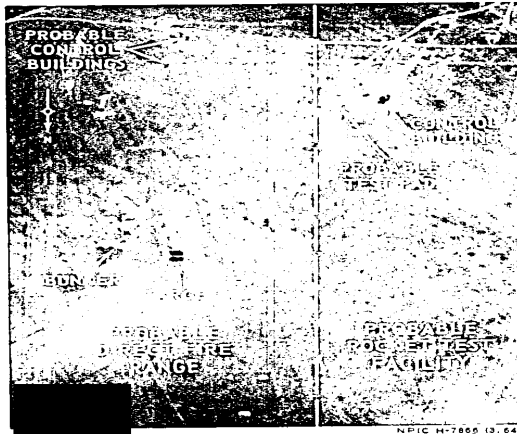


FIGURE 9. FIRING AREA A, FIRING COMPLEX 2.

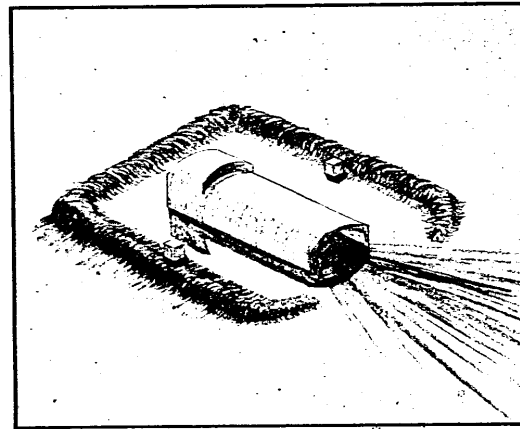


FIGURE 10. PROBABLE TEST PAD, FIRING AREA A.

- 9 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

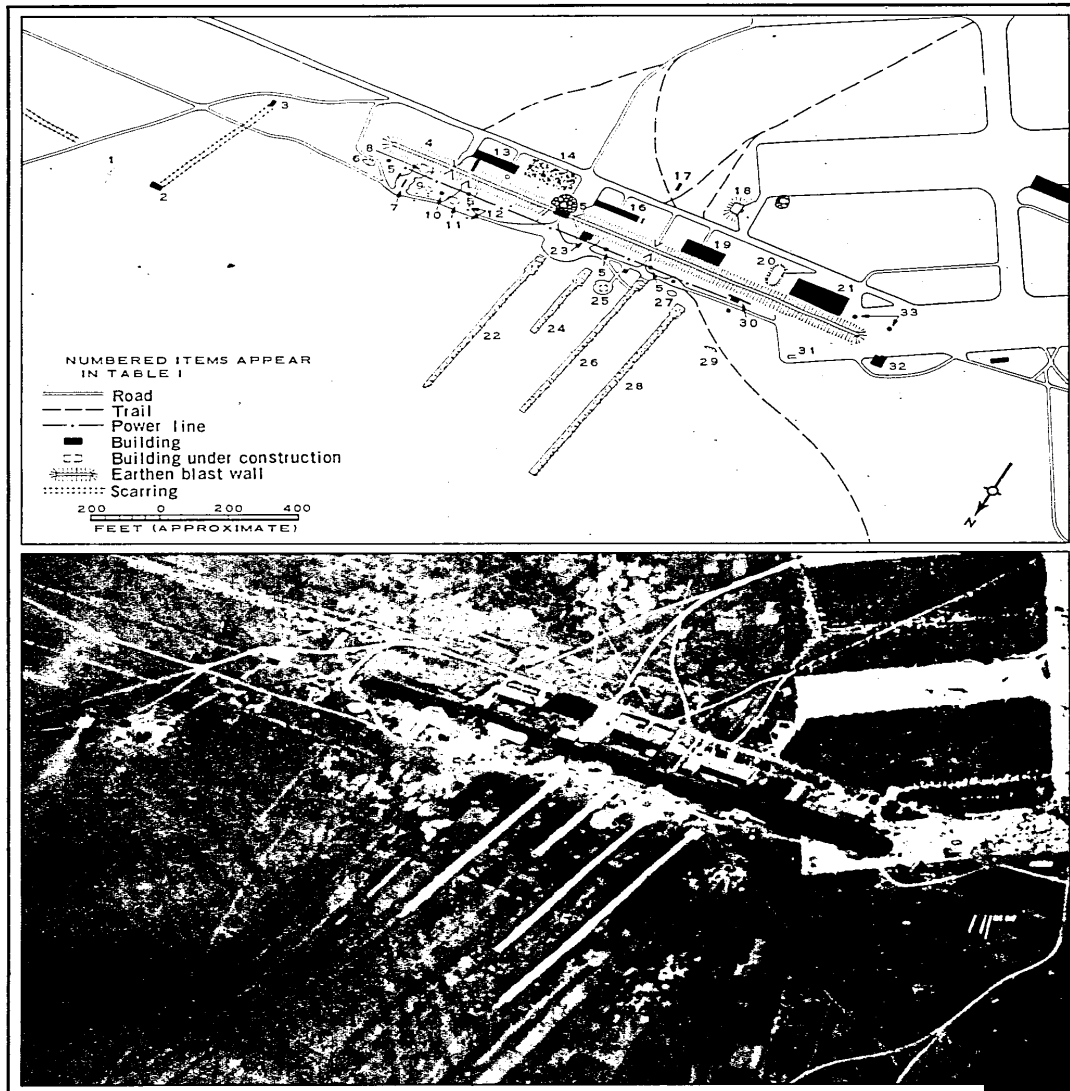


FIGURE 11. FIRING AREA B, FIRING COMPLEX 2.

25X1D

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

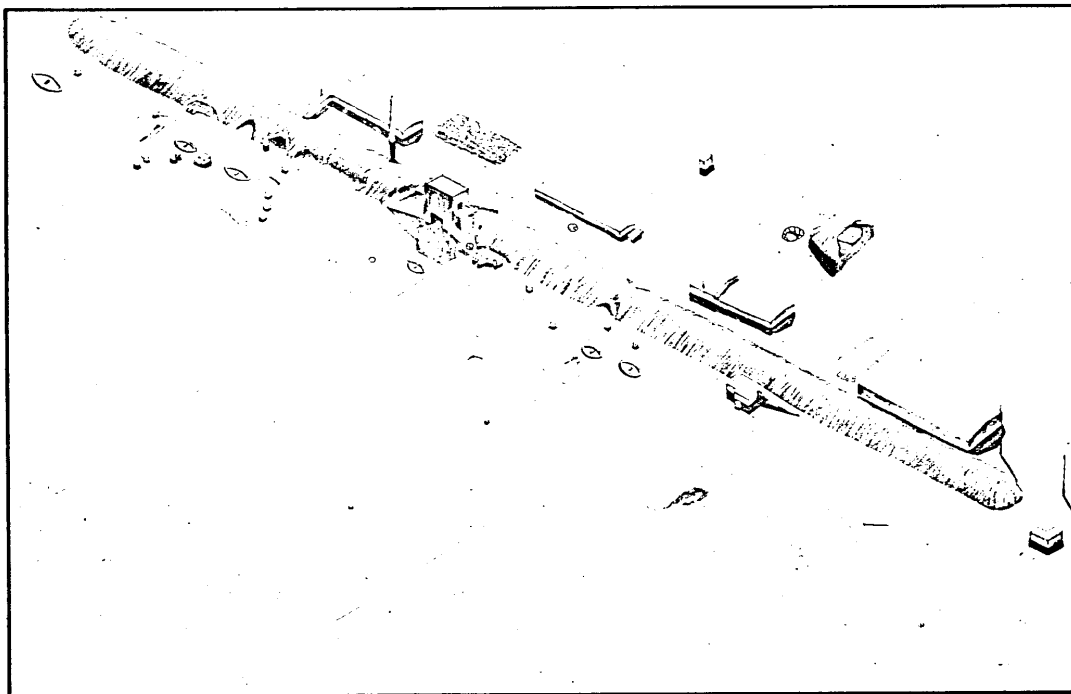


FIGURE 12. FIRING AREA B, FIRING COMPLEX 2.

NPIC H-7859 (3/64)

elliptical (three different sizes), ramp, and plain concrete pad. To the rear of the firing positions is a large, earthen blast wall (Item 4, Figure 11) containing a drive-through passageway with a structure (Item 15) used for control of range facilities. Two additional passageways come from the vicinity of the four support buildings situated to the rear of the blast wall. Two other support buildings are in front of the blast wall. The probable function of these support buildings is to prepare the test items for firing. This area is possibly used to test small free rockets.

Additional data for Areas A and B are given in Table 1.

**Firing Area C**

This area (Figures 13 and 14) consists of two firing positions with an earthen blast wall (Item 4, Figure 13) to the rear. The blast wall is being modified by the construction of two passageways through it. The bunkers, targets, and length of the range indicate that this area is probably used to test direct-fire weapons.

**Firing Area D**

This area (Figures 13 and 14) consists of three concrete, probable firing positions, a

- 11 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM

NPIC/R-170/64

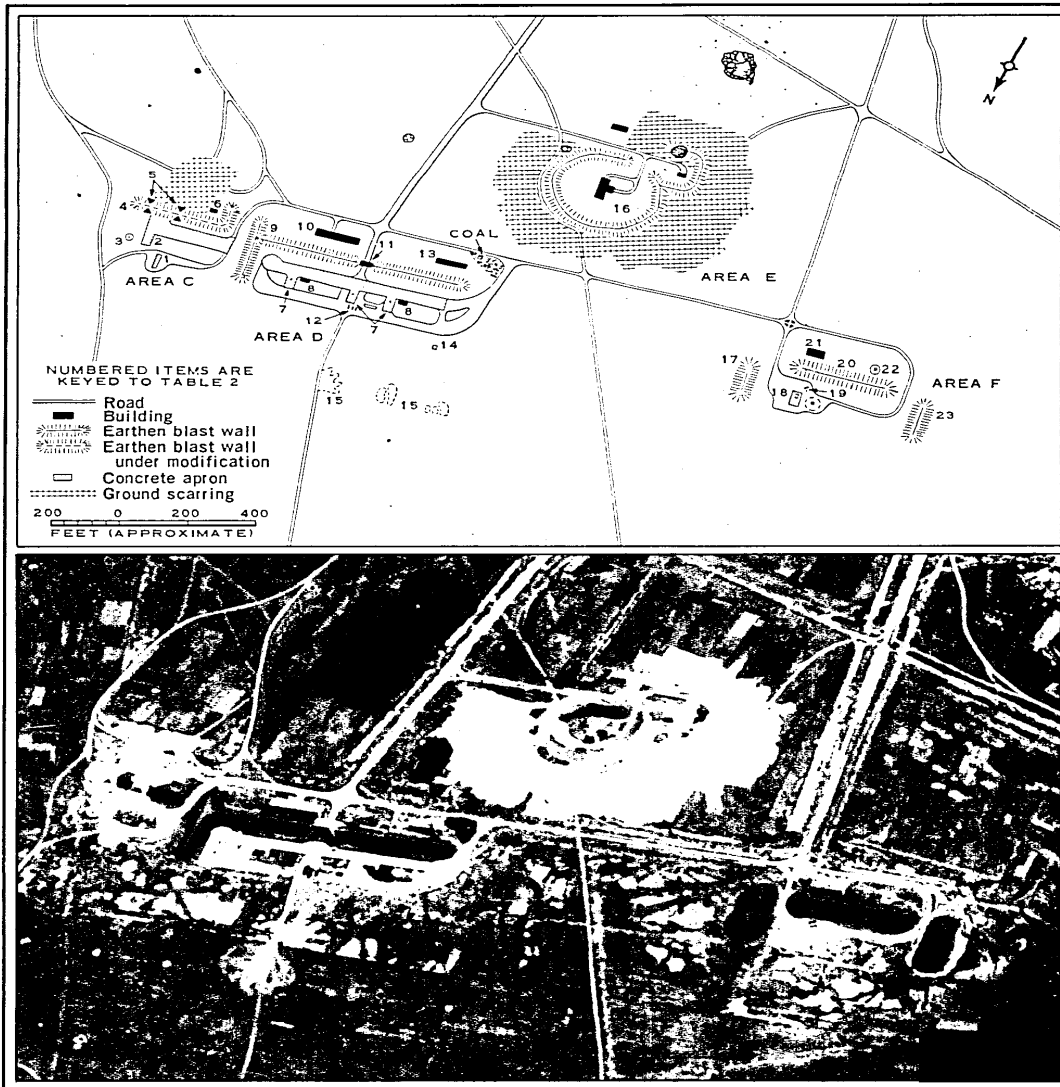


FIGURE 13. FIRING AREAS C, D, E, AND F, FIRING COMPLEX 2.

NPIC H-7870 (3/64)

25X1D

- 12 -

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM



## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64



FIGURE 14. FIRING AREAS C, D, E, AND F, FIRING COMPLEX 2.

NPIC H-7871 (3/64)

Table 1. Facilities in Firing Areas A and B

| Item | Dimensions (ft) |       | Description   |
|------|-----------------|-------|---|
|      | Length          | Width |   |
| 1    |                 |       | Probable horizontal rocket test pad   |
| 2    | 30              | 20    | Probable control building   |
| 3    | 35              | 20    | Probable instrumentation building with unidentified object on flat roof and earth scar (probably cable) to Item 2 |
| 4    | 1,485           | 60    | Earthen blast wall  |
| 5    |                 |       | 4 possible instrumentation sites  |
| 6    | 40              | 25    | Elliptical firing position with unidentified equipment in center  |
| 7    |                 |       | Rectangular firing position with 40 x 5 foot dark center portion  |
| 8    |                 |       | Excavation, probably for building similar to Item 23  |
| 9    | 30              | 20    | Elliptical firing position  |
| 10   | 20              | 15    | Control building  |
| 11   | 40              | 25    | Elliptical firing position  |
| 12   |                 |       | 3 pieces of unidentified equipment  |
| 13   | 130             | 35    | Support building with tall stack for a probable heating plant and covered overhead walkway into Item 4            |
| 14   |                 |       | Coal  |
| 15   | 45              | 25    | Drive-through structure, control building   |
| 16   | 145             | 25    | Administration support building   |
| 17   | 20              | 10    | Possible firing butt - distance from rear of Item 16 is 165 feet  |
| 18   | 80              | 35    | Possible firing bunker  |
| 19   | 130             | 45    | Support building with firewall 45 feet from east end; vehicle is parked at west end of building                   |
| 20   | 80              | 35    | Semiburied structure  |

- 13 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

Table 1. (Continued)

| Item | Dimensions (ft) |       | Description   |
|------|-----------------|-------|---|
|      | Length          | Width |   |
| 21   | 165             | 65    | Support building  |
| 22   | 25              | 10    | Elliptical firing position with a 570 x 10 foot probable concrete ramp                                |
| 23   | 30              | 15    | Possible control building   |
| 24   |                 |       | Firing position on a 60 x 30 foot pad with a 255 x 15 foot probable concrete ramp                     |
| 25   |                 |       | Possible instrumentation site   |
| 26   | 25              | 10    | Probable elliptical firing position on a 35 x 40 foot pad with a 590 x 15 foot probable concrete ramp |
| 27   | 25              | 10    | Probable elliptical firing position   |
| 28   |                 |       | Firing position on a 35 x 25 foot pad with a 735 x 15 foot probable concrete ramp                     |
| 29   | 5               | 5     | Underground entrance  |
| 30   | 45              | 25    | Support building with ramp leading underground on west side   |
| 31   |                 | 8     | Probable loading ramp   |
| 32   | 35              | 15    | L-shaped support building   |
| 33   | 20              | 15    | Probable utility poles  |

T-shaped earthen blast wall (Item 9) containing a drive-through passageway with a structure used for control of range facilities, two support build-

ings to the rear of the blast wall, and an observation tower. The support buildings are believed to be used to prepare test items for firing.

Table 2. Facilities in Firing Areas C, D, E, and F

| Item | Dimensions (ft) |       | Description  |
|------|-----------------|-------|--|
|      | Length          | Width |  |
| 1    | 55              | 15    | Concrete firing position   |
| 2    | 65              | 25    | Concrete firing position   |
| 3    |                 |       | Unidentified object 25 feet in diameter  |
| 4    | 255             | 55    | L-shaped earthen blast wall undergoing modification  |
|      | 55              | 55    |  |
| 5    | 35              | 20    | 2 passageways - not covered yet  |
| 6    | 20              | 10    | Control building   |
| 7    | 55              | 35    | 3 concrete probable firing positions   |
| 8    | 25              | 20    | 2 control buildings  |
| 9    | 640             | 45    | T-shaped earthen blast wall  |
|      | 215             | 55    |  |
| 10   | 135             | 25    | Administration/support building  |
| 11   | 45              | 20    | Drive-through structure/control building   |
| 12   |                 |       | 3 probable radar vans  |
| 13   | 65              | 25    | Support building with tall stack for a probable heating plant  |
| 14   |                 |       | Lattice tower - probably observation   |
| 15   |                 |       | Old possible firing positions  |
| 16   |                 |       | Revetted area with a T-shaped building (45 x 20 feet and 20 x 10 feet) and a smaller building (20 x 20 feet) |
| 17   | 175             | 100   | Earthen blast wall   |
| 18   | 50              | 30    | One concrete rectangular firing position and one possible circular firing position                           |
| 19   |                 |       | Possible dump truck and 2 covered pieces of unidentified equipment   |
| 20   | 320             | 75    | Earthen blast wall   |
| 21   | 65              | 25    | Support building   |
| 22   | 20              | 20    | Square excavation within circular scarred area   |
| 23   | 165             | 65    | Earthen blast wall   |

- 14 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64



Three probable fire-control radar vans are located in the firing area. These vans are not part of any operational site and there is no evidence of any of the weapons with which the vans are normally associated. This area is probably used to test small free rockets.

**Firing Area E**

This area (Figures 13 and 14) consists of a large elliptical revetment enclosing a T-shaped building and an adjacent smaller U-shaped revetment enclosing a small rectangular building.

The area is still in an early stage of construction and its function is unknown.

**Firing Area F**

This area (Figures 13 and 14) consists of a rectangular firing position, a possible circular firing position, three earthen blast walls, and a support building. The area is probably used to test small free rockets and possibly heavy artillery.

Additional data for Areas C, D, E, and F are given in Table 2.

**INDUSTRIAL SUPPORT COMPLEX**

The Industrial Support Complex (Figures 15 and 16) is situated in the middle of the installation (all other areas are referenced from this area). It consists of a main support area, a possible utility area on the west edge of the support area, a possible laboratory facility on the southwest edge, and a motor pool (Inset-Figures 15 and 16)

with 24 cargo trucks immediately south of Firing Complex 1. The complex contains 85 buildings including administration, storage, utility, and support buildings. Two of the buildings are large workshops (Items 10 and 23) containing machine tools, possible small furnaces, and a considerable amount of open space which is

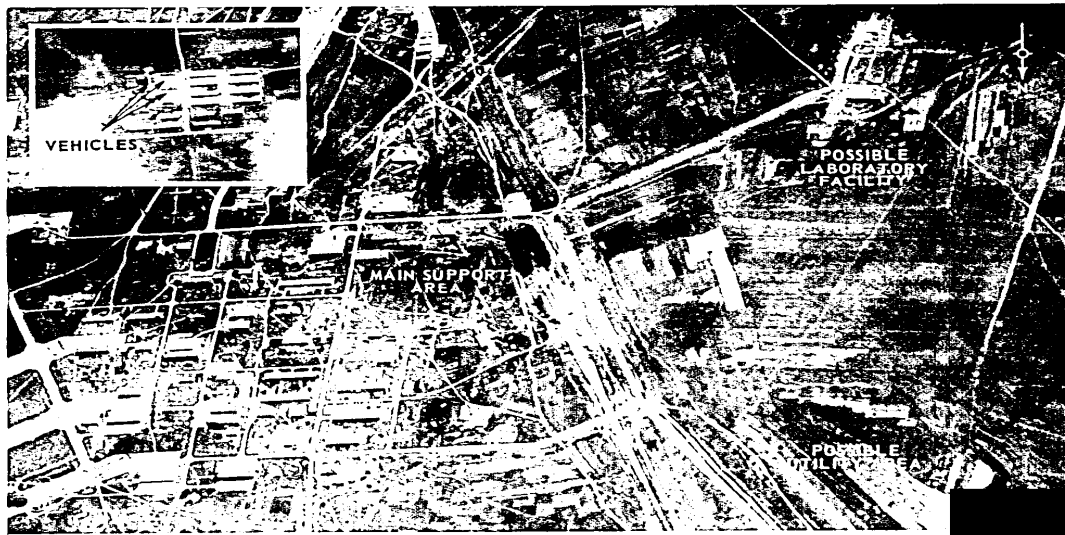


FIGURE 15. INDUSTRIAL SUPPORT COMPLEX.

25X1D

- 15 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

used for assembly/disassembly/modification of test items. A low-bed trailer, a cargo truck, and an unidentified truck with a possible boom or crane on it are in a second motor pool which is located in the main support area.

In the western part of the main support

area are two dead-end rail spurs, along which are two transshipment buildings and open coal storage. The main support area is situated on an old airfield which accounts for the parking aprons on the east side of the area.

Additional data are given in Table 3.

Table 3. Facilities in the Industrial Support Complex

| Item | Dimensions (ft) |       | Description   |
|------|-----------------|-------|---|
|      | Length          | Width |   |
| 1    | 95              | 30    | Possible utility building with an overhead line going underground on the south side   |
| 2    | 215             | 45    | Storage building  |
| 3    | 195             | 25    | Probable storage building   |
| 4    | 240             | 25    | Probable storage building   |
| 5    | 100             | 40    | Probable utility building   |
| 6    | 45              | 20    | Probable utility building   |
| 7    | 55              | 35    | Storage building  |
| 8    | 220             | 40    | Storage building  |
| 9    | 220             | 40    | Storage building  |
| 10   | 220             | 100   | Workshop with monitor and several small stacks on roof and a raised section (possibly housing tanks, tower, or interior equipment)      |
| 11   | 315             | 40    | Administration building   |
| 12   | 120             | 55    | Mess hall   |
|      | 65              | 35    |   |
|      | 55              | 20    |   |
|      | 55              | 20    |   |
| 13   | 440             | 110   | Substation - control building is 90 x 20 feet   |
| 14   | 65              | 25    | Possible utility building with a 150 x 30 foot adjacent building shell  |
| 15   | 220             | 55    | Administration building   |
|      | 50              | 55    |   |
| 16   | 340             | 35    | Administration building   |
| 17   | 90              | 40    | Storage building  |
| 18   |                 |       | Water tower - 20 feet in diameter   |
| 19   | 250             | 50    | Probable forge and blacksmith shop  |
| 20   | 110             | 25    | Possible utility building   |
| 21   | 330             | 40    | Administration building   |
| 22   | 305             | 50    | Administration building   |
| 23   | 195             | 190   | Workshop with monitor, 2 possible stacks, and 4 probable vents on roof  |
|      | 110             | 60    |   |
|      | 60              | 65    |   |
| 24   | 215             | 45    | Storage building  |
|      | 45              | 15    |   |
|      | 45              | 15    |   |
| 25   | 95              | 25    | Shop  |
| 26   | 90              | 30    | Possible storage building - may be individually secured   |
| 27   | 90              | 40    | Probable utility building   |
| 28   | 110             | 45    | Administration building   |
| 29   |                 |       | Probable weather station  |
| 30   |                 |       | Utility area contains 2 very small buildings, one larger building with a high-roofed section, and one structure similar to a well house |
| 31   | 210             | 50    | Administration building   |
| 32   | 310             | 60    | Probable forge and machine shop   |
| 33   | 310             | 50    | Administration building   |
| 34   | 90              | 30    | Possible utility building with overhead line going underground on south side  |
| 35   | 210             | 50    | Building under construction   |
| 36   | 195             | 40    | Probable storage building   |
| 37   | 165             | 55    | Probable storage building   |

- 16 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

# TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

Table 3. (Continued)

| Item | Dimensions (ft) |       | Description   |
|------|-----------------|-------|---|
|      | Length          | Width |   |
| 38   | 220             | 45    | Motor pool with vehicle maintenance building, utility building, probable grease rack, and 55 x 35 foot garage |
| 39   |                 |       | Utility area with 2 semiburied tanks - 80 feet in diameter, and a 30 x 30 foot pump house                     |
| 40   | 140             | 35    | Storage building  |
| 41   | 90              | 35    | Possible steam plant  |
| 42   | 130             | 50    | Steam plant   |
| 43   | 20              | 20    | Unidentified structure - small building with possible tank  |
| 44   |                 | 75    | Bunker with 3 doors   |
| 45   |                 | 40    | Bunker with one door  |
| 46   | 240             | 40    | Unidentified building with vents, skylights on roof and 2 stacks on one side                                  |
|      | 90              | 35    |   |
|      | 55              | 45    |   |
| 47   | 210             | 45    | Transshipment building  |
| 48   | 210             | 35    | Transshipment building  |
| 49   | 300             | 65    | Coal  |
| 50   | 30              | 20    | Fenced utility building with probable pipe line leading to possible laboratory facility                       |
| 51   | 55              | 45    | Earth-covered structure - overall size of bunker is 285 x 45 feet   |
| 52   |                 |       | Trapezoidal basin totaling 20,625 sq ft; basin depth estimated at 10 feet, 2 ladders on wall                  |
| 53   | 225             | 60    | Administration-type building possibly containing laboratory facilities  |
|      | 40              | 25    |   |
| 54   | 80              | 20    | Ramp-like structure   |
| 55   | 120             | 45    | Possible laboratory with many vents and stacks and a small steam plant  |
|      | 60              | 25    |   |
|      | 60              | 25    |   |
| 56   | 135             | 30    | 6 vehicle sheds   |

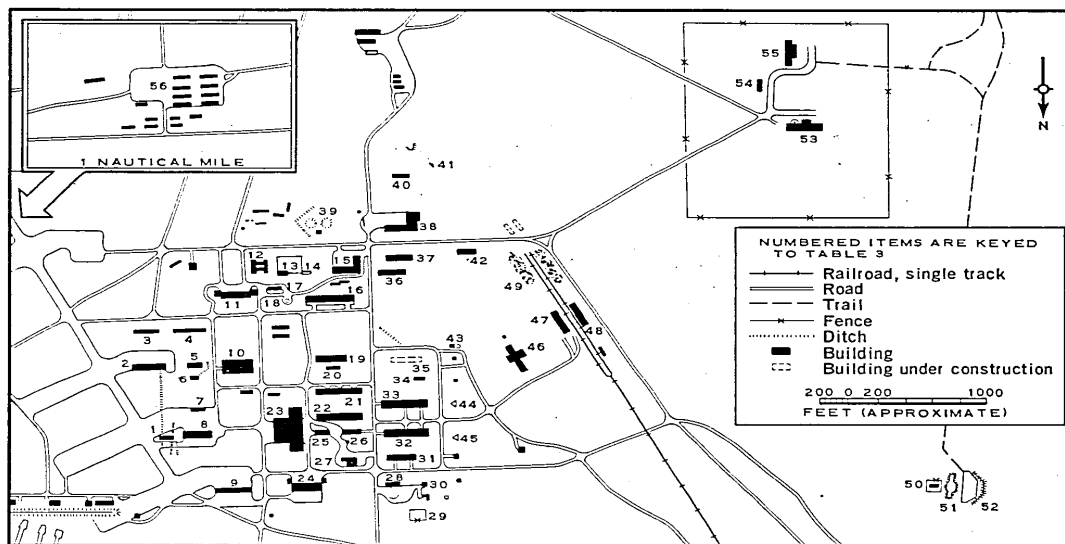


FIGURE 16. INDUSTRIAL SUPPORT COMPLEX.

NPIC H-7873 (3/64)

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64



## ADMINISTRATIVE SUPPORT COMPLEX

The Administrative Support Complex (Figure 17) is located immediately south of the Industrial Support Complex. It contains 51 barracks/quarters buildings, 44 miscellaneous buildings, a probable hospital, and a probable

agricultural support area. The barracks/quarters buildings appear to be more for civilian/family housing than for troop units; therefore, no personnel capacity has been computed.

Additional data are given in Table 4.

Table 4. Facilities in the Administrative Support Complex

| Item | Dimensions (ft) |       | Description  |
|------|-----------------|-------|--|
|      | Length          | Width |  |
| 1    |                 |       | Administration building (T-shaped with adjoining building) totaling 7,575 sq ft of floor space |
| 2    | 35              | 25    | Heating plant  |
| 3    |                 |       | U-shaped administration building totaling 6,525 sq ft of floor space                           |
| 4    | 160             | 50    | Probable barracks/quarters building  |
| 5    | 165             | 20    | 12 barracks/quarters buildings   |
| 6    | 135             | 50    | Probable mess hall   |
| 7    | 160             | 20    | 16 barracks/quarters buildings   |
| 8    | 230             | 75    | Storage building   |
| 9    |                 |       | Athletic field   |
| 10   | 210             | 45    | 6 multistory barracks/quarters buildings   |
| 11   |                 |       | Probable hospital totaling 28,500 sq ft of floor space   |
| 12   | 200             | 45    | Administration building  |
| 13   | 55              | 30    | Heating plant with stack   |
| 14   |                 |       | Multistory administration building (auditorium) totaling 25,100 sq ft of roof cover            |
| 15   | 140             | 50    | Multistory barracks/quarters building  |
|      | 70              | 50    |  |
| 16   |                 |       | T-shaped heating plant totaling 6,000 sq ft of floor space                                     |
| 17   | 465             | 45    | Administration building with archway over road   |
| 18   | 220             | 50    | Multistory administration building   |
| 19   | 140             | 40    | 2 multistory barracks/quarters buildings   |
|      | 110             | 40    |  |
| 20   | 170             | 40    | Multistory barracks/quarters building  |
| 21   | 140             | 50    | Mess hall  |
|      | 100             | 50    |  |
| 22   |                 |       | U-shaped heating plant totaling 5,850 sq ft of floor space                                     |
| 23   | 220             | 40    | Multistory barracks/quarters building  |
| 24   | 170             | 40    | 2 multistory barracks/quarters buildings   |
| 25   | 140             | 40    | Multistory barracks/quarters building  |
|      | 110             | 40    |  |
| 26   | 175             | 40    | Multistory barracks/quarters building  |
| 27   | 90              | 35    | Multistory barracks/quarters building  |
| 28   | 150             | 50    | Probable barracks/quarters building  |
| 29   | 190             | 60    | T-shaped administration building   |
|      | 65              | 45    |  |
| 30   | 190             | 35    | Motor pool   |
| 31   | 65              | 35    | 2 probable barracks/quarters buildings   |
| 32   |                 |       | Irregular-shaped administration building totaling 22,700 sq ft of floor space                  |
| 33   |                 |       | Underground entrance   |
| 34   | 50              | 30    | 4 probable barracks/quarters buildings   |
| 35   |                 |       | Agricultural support area  |
| 36   |                 |       | Probable water works   |

- 18 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

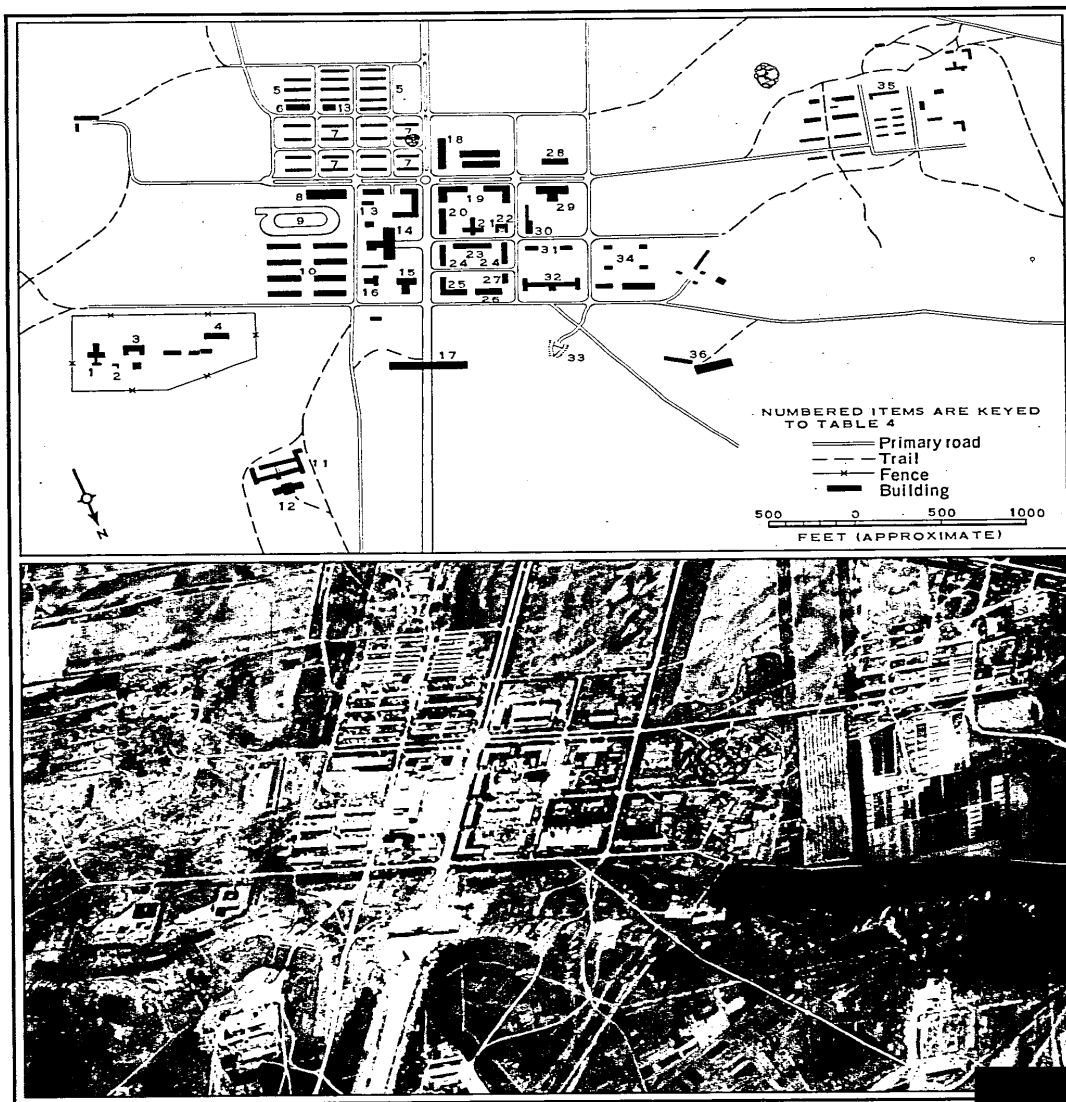


FIGURE 17. ADMINISTRATIVE SUPPORT COMPLEX.

25X1D

- 19 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

# TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

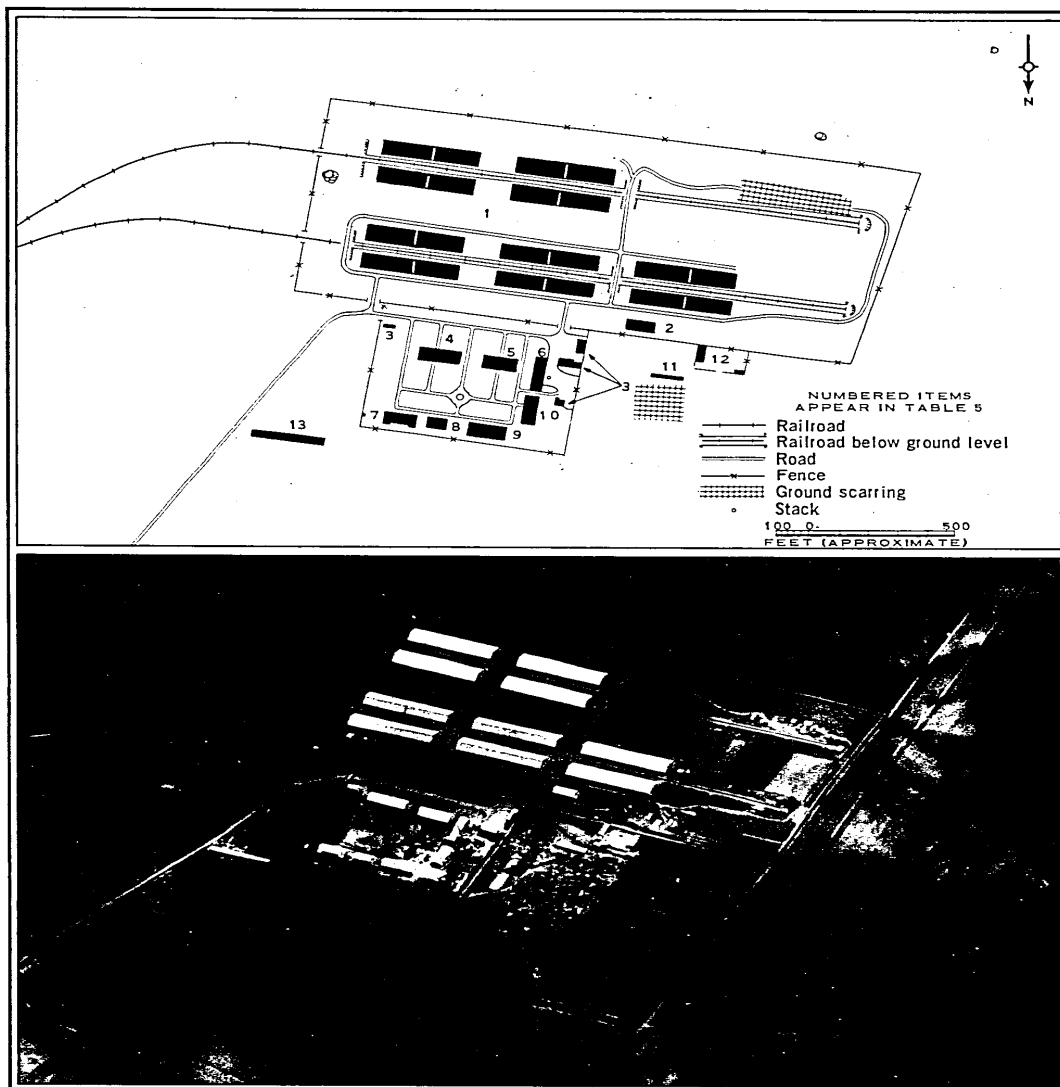


FIGURE 18. STORAGE AREA 1.

- 20 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

25X1D



# TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

## STORAGE AREA 1

A non-explosive storage area (Figure 18) covering approximately 40 acres is situated south-southwest of the Industrial Support Complex. It is secured by a high wire fence and is road and rail served. Ten large warehouses are located in the area. An adjacent support area contains 5 dormitory-type buildings, one mess hall, and 8 miscellaneous support buildings. The railroad tracks are below ground level so that the floor of the rail cars and the floors of the warehouses are at the same level.

This is the primary storage area at this installation for non-explosive materials.

Additional data are given in Table 5.

Table 5. Facilities in Storage Area 1

| Item | Dimensions (ft) |       | Description                                    |
|------|-----------------|-------|--|
|      | Length          | Width |  |
| 1    | 350             | 70    | 10 warehouses divided by firewalls             |
| 2    | 90              | 40    | Utility and administration building            |
| 3    |                 |       | 4 small guard and support buildings            |
| 4    | 150             | 60    | Two-story dormitory                            |
| 5    | 125             | 60    | Single-story dormitory                         |
| 6    | 140             | 35    | Heating plant                                  |
| 7    | 110             | 45    | Single-story dormitory                         |
| 8    | 70              | 45    | Single-story dormitory                         |
| 9    | 130             | 60    | Two-story dormitory                            |
| 10   | 115             | 45    | Mess hall                                      |
| 11   | 115             | 35    | Support or storage building                    |
| 12   |                 |       | Probable motor pool with a 60 x 30 foot garage |
| 13   | 250             | 25    | Support building                               |

## STORAGE AREA 2

This area (Figure 19), located west-northwest of the Industrial Support Complex, is probably utilized for storing items that are explosive, extremely sensitive, or toxic in nature, although the specific function cannot be defined at this time. The main area contains 10 revetted storage buildings, 3 buried tanks, 4 support buildings, and 3 buildings under construction. A sub-area, on the northwest edge of the main area, contains 6 buildings, 3 of which are connected by

above ground pipe lines.

The unusual amount of physical security, the overall layout, and the wide radius curves on the roads suggest that materials other than conventional explosives are stored here. A possible future use could be for the disposition of radioactive test items. The area is still under construction and is being expanded on the northwest corner.

Additional data are given in Table 6.

Table 6. Facilities in Storage Area 2

| Item | Dimensions (ft) |       | Description  |
|------|-----------------|-------|--|
|      | Length          | Width |  |
| 1    | 100             | 20    | 3 probable storage buildings with 2 covered entranceways each                          |
| 2    | 50              | 20    | Processing building  |
| 3    | 30              | 20    | Processing building  |
| 4    | 50              | 20    | Footings for structure   |
| 5    | 20              | 20    | Probable pump house  |
| 6    | 135             | 70    | 2 revetted storage buildings with 2 covered entranceways each                          |
| 7    | 60              | 40    | 2 revetted storage buildings   |
| 8    |                 |       | 3 circular buried tanks - 35 feet in diameter  |
| 9    | 150             | 45    | 3 revetted storage buildings   |
| 10   | 50              | 20    | 2 revetted storage buildings   |
| 11   | 60              | 40    | Revetted storage building with covered entranceway                                     |
| 12   | 120             | 30    | Probable administration building with outhouse   |
| 13   | 125             | 40    | Building under construction with 2 covered entranceways and 40-foot-long inclined ramp |

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM

NPIC/R-170/64

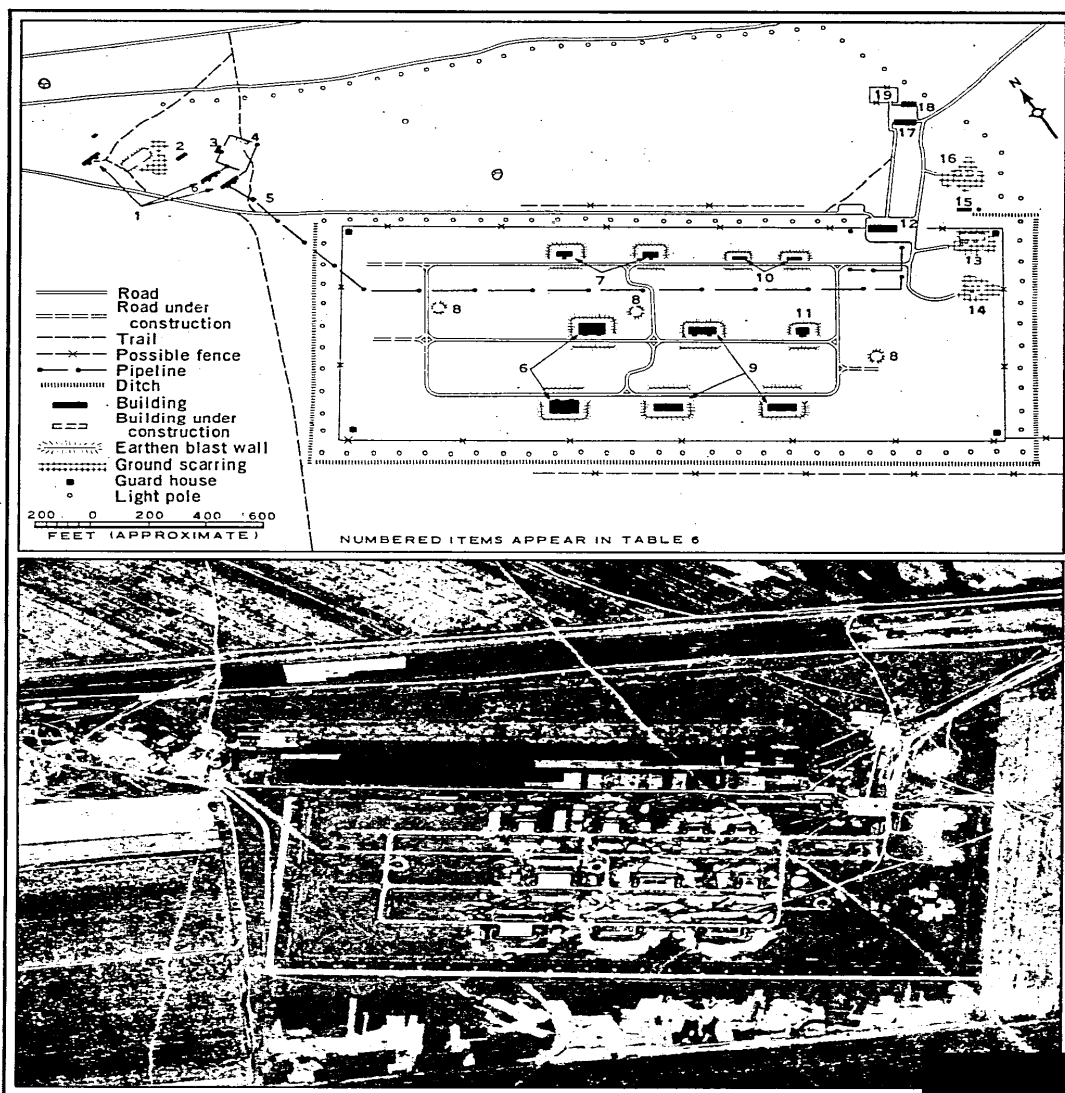


FIGURE 19. STORAGE AREA 2.

25X1D

- 22 -

TOP SECRET CHESS RUFF  
NO FOREIGN DISSEM

## TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

Table 6. (Continued)

| Item | Dimensions (ft) |       | Description   |
|------|-----------------|-------|---|
|      | Length          | Width |   |
| 14   | 70              | 25    | Building under construction with one covered entranceway and 25-foot-long inclined ramp |
| 15   | 70              | 20    | Probable barracks building  |
| 16   | 80              | 25    | Building under construction   |
| 17   | 85              | 35    | Probable garage   |
| 18   | 55              | 20    | Probable barracks building  |
| 19   |                 |       | Fenced probable motor pool  |

25X1B

- 23 -

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

25X1B

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280089-5

Next 1 Page(s) In Document Exempt

Approved For Release 2000/08/23 : CIA-RDP78T05439A000300280089-5

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

25X1B



COMPARISON WITH THE TEST FACILITY AT TU-KO-MA-CHING

This installation is considerably larger than the Test Facility at Tu-ko-ma-ching, China, 2/ and already has a greater variety of test ranges and may have more after construction is complete. There are three items that appear identical to those at Tu-ko-ma-ching; namely, the elliptical firing positions, the lattice work instrumentation towers, and the largest storage

buildings in Storage Area 2. Another area, the



25X1B

TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

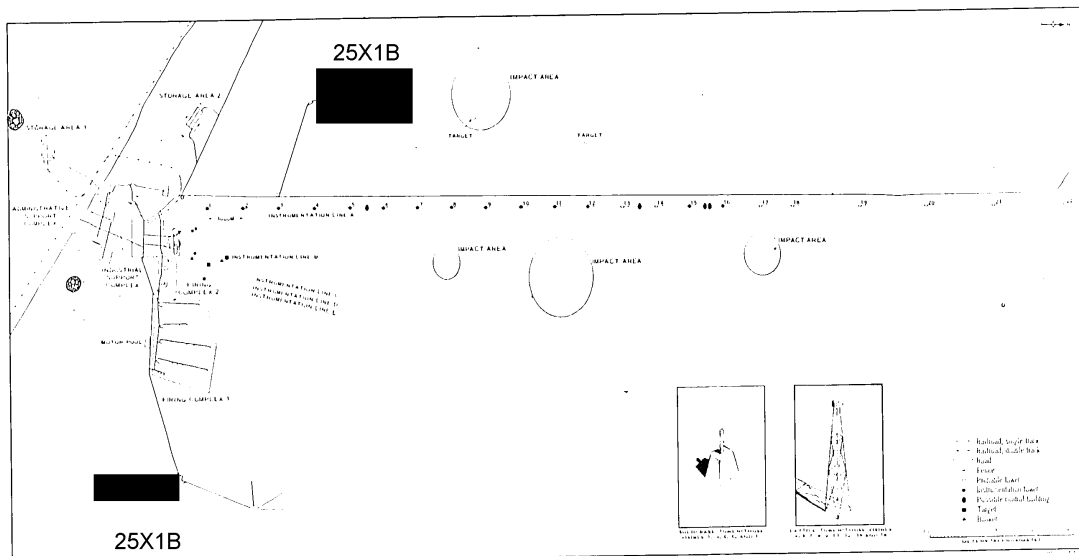
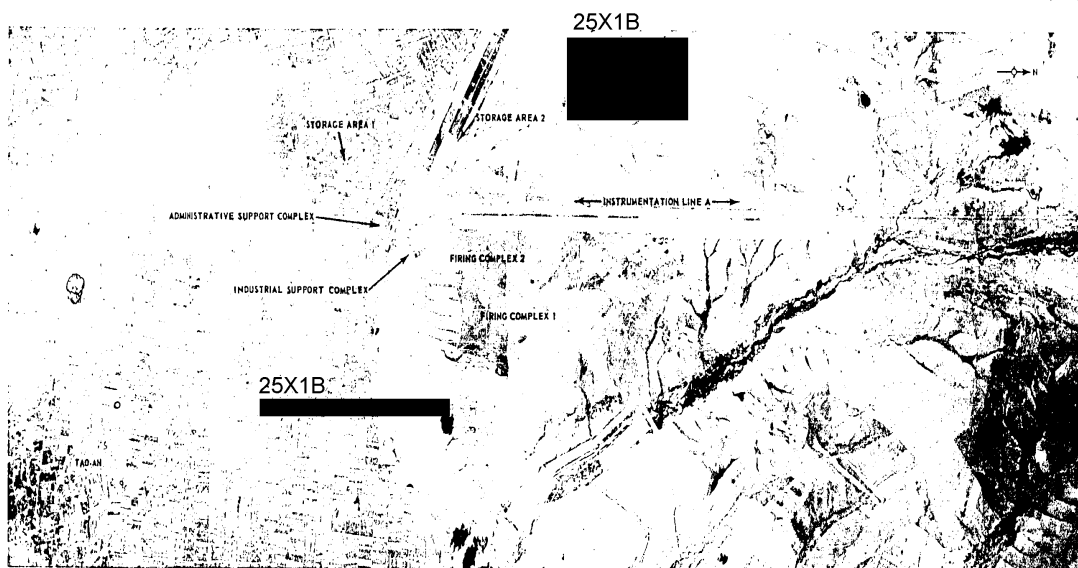


FIGURE 20. TADART TEST AREA 10



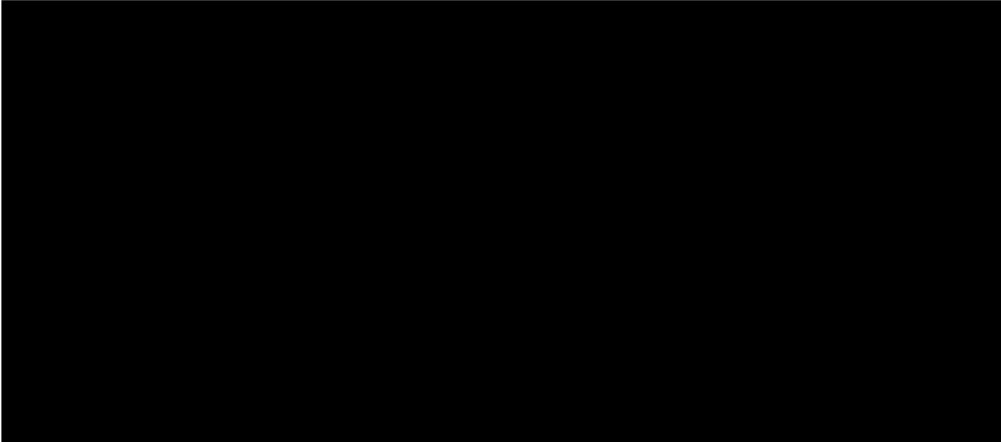
TOP SECRET CHESS RUFF

NO FOREIGN DISSEM

NPIC/R-170/64

25X1D

REFERENCES



MAPS

ACIC. US Air Target Chart, Series 200, Sheet 0284-15-200AL, 1st ed, Jan 60, scale 1:200,000 (SECRET)

DOCUMENTS

25X1D

2. NPIC/R-176/63, Test Facility, Tu-ko-ma-ching, China, Aug 63 (TOP SECRET RUFF/ No Foreign Dissem)

REQUIREMENTS

CIA. C-S13-80,566

NPIC PROJECT

J-326/63

25X1C



TOP SECRET CHESS RUFF

NO FOREIGN DISSEM